| Ref<br>#  | Hits | Search Query                | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|-----------|------|-----------------------------|---|---------------------|---------|------------------|
| S1        | 2    | "20050122571"               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:34 |
| S2        | 0    | S1 & dircet\$3 & contact\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:35 |
| S3        | 0    | S1 & diret\$3 & contact\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:35 |
| S4        | 1    | S1 & direct\$3 & contact\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:43 |
| S5        | 2    | "6678289"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:38 |
| S6        | 0    | S5 & direct\$3 & contact\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:38 |
| S7        | 0    | S5 & contact\$3             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:38 |
| <b>S8</b> | 0    | S5 & direct\$3              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2006/01/07 16:38 |

| S9  | 1   | S5 & gap  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 16:46 |
|-----|-----|---|---|----|----|------------------|
| S10 | 24  | ((gain adj clamp\$3) same<br>semiconductor same optical\$3<br>same amplif\$3).ti. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 16:55 |
| S11 | 3   | S10 & gain & direct\$4 & grat\$3 &<br>layer & clad\$3                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:25 |
| S12 | 3   | S10 & gain & direct\$4 & grat\$4 & layer & clad\$3                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 16:55 |
| S13 | 5   | S10 & gain & grat\$4 & layer &<br>clad\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 16:54 |
| S14 | 149 | ((gain adj clamp\$3) same<br>semiconductor same optical\$3<br>same amplif\$3)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:28 |
| S15 | 24  | S14 & gain & direct\$4 & grat\$4 & layer & clad\$3                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:13 |
| S16 | 1   | S14 & (gain adj waveguid\$3) & grat\$4 & layer & clad\$3                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:29 |



| S17 | . 22 | S14 & (gain & waveguid\$3) & grat\$4 & layer & clad\$3                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:24 |
|-----|------|--|---|----|----|------------------|
| S18 | 120  | ((gain adj clamp\$3) near5<br>semiconductor near5 optical\$3<br>same amplif\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:28 |
| S19 | 118  | ((gain adj clamp\$3) near5<br>semiconductor near5 optical\$3<br>near5 amplif\$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:28 |
| S20 | 22   | S14 & (gain & waveguid\$3) & grat\$4 & layer & clad\$3                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:29 |
| S21 | 28   | S14 & gain & grat\$4 & layer & clad\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:32 |
| 522 | 0    | S1 & filter\$3 & light\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:34 |
| S23 | 1    | S1 & (amplif\$3 with light\$3 with gain\$3)                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/07 17:34 |